

Appendix H: Direct Economic Impacts Calculations

VISITOR EXPENDITURE REDUCTION: ROAD REHABILITATION ALTERNATIVE 3 (Comprehensive Shared Use)									2004
Steps									
#4 & #5	Average Daily Expenditures and Total Visitor Expenditures: Local Montanan Glacier National Park Visitors								<i>Local Montanans</i>
	<i>Average Travel Group Size:</i>		3.2						
	<i>Item</i>	<i>Travel Group</i>	<i>Per Person</i>						
	Groceries	\$16	\$5	-\$7,676	-\$33,401	-\$31,881	-\$16,917	-\$1,714	-\$91,589
	Restaurant & Bar	\$30	\$9	-\$13,817	-\$60,121	-\$57,386	-\$30,450	-\$3,085	-\$164,859
	Gasoline & Automobile	\$16	\$5	-\$7,676	-\$33,401	-\$31,881	-\$16,917	-\$1,714	-\$91,589
	Lodging & Camping	\$32	\$10	-\$15,353	-\$66,802	-\$63,762	-\$33,833	-\$3,428	-\$183,177
	Recreation Activities	\$14	\$4	-\$6,141	-\$26,721	-\$25,505	-\$13,533	-\$1,371	-\$73,271
	Gifts	\$15	\$5	-\$7,676	-\$33,401	-\$31,881	-\$16,917	-\$1,714	-\$91,589
	Other, Excluding Airfare	\$11	\$3	-\$4,606	-\$20,040	-\$19,129	-\$10,150	-\$1,028	-\$54,953
	Total	\$134	\$41	-\$62,946	-\$273,886	-\$261,424	-\$138,717	-\$14,054	-\$751,027
Steps									
#4 & #5	Total Visitor Expenditures for Days Spent at Glacier National Park								<i>All Visitors</i>
	<i>Item</i>			<i>1/2 June</i>	<i>July</i>	<i>August</i>	<i>September</i>	<i>1/2 October</i>	<i>TOTAL</i>
	Groceries			-\$121,419	-\$528,313	-\$504,274	-\$267,578	-\$27,109	-\$1,448,693
	Restaurant & Bar			-\$303,313	-\$1,319,765	-\$1,259,715	-\$668,430	-\$67,720	-\$3,618,944
	Gasoline & Automobile			-\$170,747	-\$742,949	-\$709,144	-\$376,286	-\$38,122	-\$2,037,249
	Lodging & Camping			-\$605,959	-\$2,636,626	-\$2,516,658	-\$1,335,390	-\$135,291	-\$7,229,925
	Recreation Activities			-\$134,902	-\$586,982	-\$560,274	-\$297,293	-\$30,119	-\$1,609,570
	Gifts			-\$214,135	-\$931,736	-\$889,341	-\$471,902	-\$47,809	-\$2,554,924
	Other, Excluding Airfare			-\$280,218	-\$1,219,273	-\$1,163,795	-\$617,533	-\$62,564	-\$3,343,382
	Total			-\$1,830,694	-\$7,965,644	-\$7,603,201	-\$4,034,413	-\$408,735	-\$21,842,687
	Total Less Local Montanans			-\$1,767,749	-\$7,691,757	-\$7,341,777	-\$3,895,696	-\$394,681	-\$21,091,661
ESTIMATED DISTRIBUTION OF VISITOR EXPENDITURES WITHIN LOCAL IMPACT AREA									
Step #8	Visitor Residence				Flathead	Glacier	Lake	Alberta	Total
	Out-of-State				70.7%	12.0%	14.6%	2.7%	100.0%
	Montanans - Nonlocal				66.3%	8.9%	24.5%	0.3%	100.0%
	Canadians				57.1%	21.4%	6.0%	15.4%	100.0%
	Montanans - Local				75.6%	1.2%	22.9%	0.2%	100.0%
Step #9	Visitor Residence			Expenditures	Flathead	Glacier	Lake	Alberta	Total
	Out-of-State			-\$18,419,663	-\$13,020,136	-\$2,215,611	-\$2,691,558	-\$492,358	-\$18,419,663
	Non-Local Montanans			-\$1,494,089	-\$990,472	-\$133,333	-\$365,713	-\$4,571	-\$1,494,089
	Canadians			-\$1,177,909	-\$673,091	-\$252,409	-\$70,675	-\$181,735	-\$1,177,909
	Local Montanans			-\$751,027	-\$567,952	-\$9,063	-\$172,198	-\$1,813	-\$751,027
	Total			-\$21,842,687	-\$15,251,651	-\$2,610,416	-\$3,300,143	-\$680,477	-\$21,842,687
	Total Less Local Montanans			-\$21,091,661	-\$14,683,699	-\$2,601,353	-\$3,127,945	-\$678,664	-\$21,091,661
ESTIMATED VISITOR EXPENDITURES WITHIN MONTANA AND OUTSIDE OF LOCAL IMPACT AREA									
				1/2 June	July	August	September	1/2 October	TOTAL
Step #10	Out-of-State Visitors								
	Visitor Days			-13,083	-56,926	-54,336	-28,832	-2,921	-156,099
	Average Days In Glacier Area			4	4	4	4	4	
	Visitors			-3,271	-14,232	-13,584	-7,208	-730	-39,025
	Average Days in Montana Outside of Impact Area			4	4	4	4	4	
	Visitor Days In Montana Outside of Impact Area			-13,083	-56,926	-54,336	-28,832	-2,921	-156,099
	Average Expenditures Per Person Per Day			\$118	\$118	\$118	\$118	\$118	
	Expenditures in Montana Outside of Impact Area			-\$1,543,801	-\$6,717,327	-\$6,411,684	-\$3,402,170	-\$344,681	-\$18,419,663
Step #10	Canadian Visitors								
	Visitor Days			-1,135	-4,938	-4,713	-2,501	-253	-13,539
	Average Days In Glacier Area			2	2	2	2	2	
	Visitors			-567	-2,469	-2,356	-1,250	-127	-6,770
	Average Days in Montana Outside of Impact Area			1	1	1	1	1	
	Visitor Days In Montana Outside of Impact Area			-567	-2,469	-2,356	-1,250	-127	-6,770
	Average Expenditures Per Person Per Day			\$87	\$87	\$87	\$87	\$87	
	Expenditures in Montana Outside of Impact Area			-\$49,362	-\$214,781	-\$205,009	-\$108,782	-\$11,021	-\$588,955
	Expenditures in Montana Outside Impact Area			-\$1,593,163	-\$6,932,108	-\$6,616,693	-\$3,510,951	-\$355,702	-\$19,008,617

Appendix H: Direct Economic Impacts Calculations

VISITOR EXPENDITURE REDUCTION: ROAD REHABILITATION ALTERNATIVE 4									2004
	Total	\$134	\$41	-\$77,471	-\$337,091	-\$321,753	-\$170,729	-\$17,297	-\$924,340
Steps #4 & #5	Total Visitor Expenditures for Days Spent at Glacier National Park: ALL								Year 2000 Dollars
	Item			1/2 June	July	August	September	1/2 October	TOTAL
	Groceries			-\$154,471	-\$672,126	-\$641,544	-\$340,416	-\$34,488	-\$1,843,045
	Restaurant & Bar			-\$386,967	-\$1,683,755	-\$1,607,143	-\$852,783	-\$86,397	-\$4,617,046
	Gasoline & Automobile			-\$218,058	-\$948,805	-\$905,633	-\$480,548	-\$48,685	-\$2,601,729
	Lodging & Camping			-\$773,831	-\$3,367,064	-\$3,213,860	-\$1,705,339	-\$172,772	-\$9,232,866
	Recreation Activities			-\$171,785	-\$747,462	-\$713,452	-\$378,572	-\$38,354	-\$2,049,624
	Gifts			-\$273,615	-\$1,190,541	-\$1,136,371	-\$602,981	-\$61,089	-\$3,264,598
	Other, Excluding Airfare			-\$359,260	-\$1,563,200	-\$1,492,073	-\$791,724	-\$80,211	-\$4,286,469
	Total			-\$2,337,986	-\$10,172,953	-\$9,710,077	-\$5,152,364	-\$521,997	-\$27,895,377
	Total Less Local Montanans			-\$2,260,515	-\$9,835,862	-\$9,388,324	-\$4,981,635	-\$504,700	-\$26,971,036
ESTIMATED DISTRIBUTION OF VISITOR EXPENDITURES WITHIN LOCAL IMPACT AREA									
Step #8	Visitor Residence				Flathead	Glacier	Lake	Alberta	Total
	Out-of-State				70.7%	12.0%	14.6%	2.7%	100.0%
	Montanans - Nonlocal				66.3%	8.9%	24.5%	0.3%	100.0%
	Canadians				57.1%	21.4%	6.0%	15.4%	100.0%
	Montanans - Local				75.6%	1.2%	22.9%	0.2%	100.0%
Step #9	Visitor Residence			Expenditures	Flathead	Glacier	Lake	Alberta	Total
	Out-of-State			-\$23,682,424	-\$16,740,175	-\$2,848,643	-\$3,460,574	-\$633,032	-\$23,682,424
	Non-Local Montanans			-\$1,838,879	-\$1,219,042	-\$164,102	-\$450,108	-\$5,626	-\$1,838,879
	Canadians			-\$1,449,734	-\$828,420	-\$310,657	-\$86,984	-\$223,673	-\$1,449,734
	Local Montanans			-\$924,340	-\$699,018	-\$111,155	-\$211,936	-\$2,231	-\$924,340
	Total			-\$27,895,377	-\$19,486,655	-\$3,334,557	-\$4,209,602	-\$864,562	-\$27,895,377
	Total Less Local Montanans			-\$26,971,036	-\$18,787,637	-\$3,323,402	-\$3,997,666	-\$862,331	-\$26,971,036
ESTIMATED VISITOR EXPENDITURES WITHIN MONTANA AND OUTSIDE OF LOCAL IMPACT AREA									
				1/2 June	July	August	September	1/2 October	TOTAL
Step #10	Out-of-State Visitors								
	Visitor Days			-16,821	-73,191	-69,861	-37,070	-3,756	-200,699
	Average Days In Glacier Area			4	4	4	4	4	
	Visitors			-4,205	-18,298	-17,465	-9,267	-939	-50,175
	Average Days in Montana Outside of Impact Area			4	4	4	4	4	
	Visitor Days In Montana Outside of Impact Area			-16,821	-73,191	-69,861	-37,070	-3,756	-200,699
	Average Expenditures Per Person Per Day			\$118	\$118	\$118	\$118	\$118	
	Expenditures in Montana Outside of Impact Area			-\$1,984,888	-\$8,636,563	-\$8,243,594	-\$4,374,218	-\$443,162	-\$23,682,424
Step #10	Canadian Visitors								
	Visitor Days			-1,397	-6,077	-5,800	-3,078	-312	-16,664
	Average Days In Glacier Area			2	2	2	2	2	
	Visitors			-698	-3,038	-2,900	-1,539	-156	-8,332
	Average Days in Montana Outside of Impact Area			1	1	1	1	1	
	Visitor Days In Montana Outside of Impact Area			-698	-3,038	-2,900	-1,539	-156	-8,332
	Average Expenditures Per Person Per Day			\$87	\$87	\$87	\$87	\$87	
	Expenditures in Montana Outside of Impact Area			-\$60,753	-\$264,346	-\$252,318	-\$133,885	-\$13,564	-\$724,867
	Expenditures in Montana Outside Impact Area			-\$2,045,641	-\$8,900,909	-\$8,495,912	-\$4,508,103	-\$456,726	-\$24,407,291

